FEBRUARY 1986
ISSN 0226-9104

FIRST YEAR SURVIVAL AND DENSITIES OF 1983 PLANTATIONS

86-01803/

This report has been prepared by

DEPARTMENT OF FORESTS, MINES AND ENERGY
FREDERICTON, NEW BRUNSWICK

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FIRST YEAR SURVIVAL AND DENSITIES OF 1983 PLANTATIONS

This publication is jointly funded under
the Canada/New Brunswick Forest Renewal Agreement

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Catalogue No: ISSN 0226-9104
Cover: Tim Fevens

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Introduction

The Timber Management Branch of the New Brunswick Department of Forest Mines and Energy has been assessing survival and growth in plantations on Crown Land since 1977. This report presents information on densities, heights and first year survival of 1983 plantations. The information is presented in tables and graphs and interpretation of the data is left to the reader. Description of the methods used can be found in "First Year Survival and Densities of 1982 plantations" copies of which are available from Timber Management Branch.

Table 1. Survival in percent one year after planting by species and stock type for 1983 plantations

Licensee	Black Spruce			White Spruce		Jack Pine				Red Pine	Larch	
	BR[1]	PP[2]	SB[3]	BR	PP	BR	PP	SB[4]	SL[5]	PP	BR	PP
Upsalquitch	54	86	-	-	-	-	89	-	-	-	-	74
Nepisiguit	-	86	-	-	93	-	91	-	-	-	-	100
Lower Miramichi	63	83	-	-	-	86	83	-	-	-	-	-
Upper Miramichi	-	84	93	-	-	65	82	94	84	-	-	-
Kent	-	90	-	-	-	-	87	-	-	-	-	-
Queens-Charlotte	71	90	-	77	-	89	89	-	-	83	-	-
Fundy	70	-	-	91	-	88	93	90	-	-	80	-
York	67	89	-	-	-	-	-	-	-	-	-	-
Carleton	68	80	-	-	-	-	78	-	-	-	-	-
Restigouche-Tobique	58	74	-	-	-	-	-	-	-	-	-	-
Provincial Summary	68	84	93	78	93	87	86	91	84	83	80	77

1 Bare root stock
2 Paper pot stock
3 Styroblock and Can Am 3
4 Spencer lemair

Table 2. 1983 Plantation areas[A] by stock type, species, licensee and survival class

Stock Type	Species	Licensee	Survival Classes					
			100 - 91%	90 - 81%	80 - 61%	60 - 41%	40%	Total
Paper Pot	Larch	1		7[B](33)[C]	7 (33)	7 (33)		20
	Black Spruce	1	239 (58)	121 (29)	43 (11)	7 (2)	0	410
		2	378 (53)	172 (24)	115 (16)	34 (5)	13 (2)	711
		3	125 (41)	85 (28)	73 (24)	24 (8)	0	307
		4	60 (32)	57 (31)	45 (24)	24 (13)	0	187
		5	47 (58)	31 (38)	3 (4)	0	0	81
		6	308 (59)	116 (22)	95 (18)	0	0	519
		8	188 (52)	89 (25)	73 (20)	9 (2)	0	359
		9	42 (39)	5 (4)	53 (50)	8 (7)	0	107
		10	228 (24)	125 (13)	390 (42)	125 (13)	68 (7)	936
		Total	1615 (45)	801 (22)	890 (25)	230 (6)	81 (2)	3617
	White Spruce	2	79 (58)	32 (24)	24 (18)	0	0	135
	Red Pine	6	42 (56)	17 (22)	8 (11)	0	8 (11)	75
	Jack Pine	1	54 (46)	55 (47)	7 (6)	0	0	117
		2	122 (62)	59 (30)	15 (7)	0	0	196
		3	209 (43)	110 (22)	109 (22)	32 (7)	29 (6)	490
		4	135 (30)	150 (34)	97 (22)	24 (5)	43 (10)	449
		5	27 (49)	11 (20)	17 (31)	0	0	55
		6	286 (53)	107 (20)	98 (18)	45 (8)	0	536
		7	126 (75)	25 (15)	16 (10)	0	0	167
		9	28 (12)	50 (21)	119 (50)	40 (17)	0	237
		Total	987 (44)	569 (25)	478 (21)	141 (6)	72 (3)	2247
Paper Pot Summary			2722 (45)	1426 (23)	1407 (23)	379 (6)	161 (3)	6095

A - includes only plantations which were assessed
B - hectares
C - percent of licensee total

Table 2. (cont'd)

Stock Type	Species	Licensee	Survival Classes					
			100 - 91%	90 - 81%	80 - 61%	60 - 41%	40%	Total
Styroblock	Black Spruce	4	12 (100)	0	0	0	0	12
	Jack Pine	4	52 (89)	6 (11)	0	0	0	59
		7	91 (48)	69 (36)	32 (17)	0	0	192
		Total	143 (57)	75 (30)	32 (13)	0	0	250
Styroblock Summary			156 (59)	75 (29)	32 (12)	0	0	263
Spencer Lemair	Jack Pine	4	13 (33)	0	26 (67)	0	0	40
Bare root	Larch	7	11 (48)	0	11 (48)	0	1 (4)	23
	Black Spruce	1	0	0	34 (25)	68 (50)	34 (25)	135
		3	7 (5)	25 (19)	47 (36)	35 (26)	19 (14)	133
		6	174 (22)	113 (15)	179 (23)	251 (32)	61 (8)	777
		7	92 (23)	86 (21)	104 (26)	78 (20)	42 (10)	402
		8	25 (10)	38 (14)	126 (48)	38 (14)	38 (14)	265
		9	24 (18)	17 (13)	48 (35)	40 (30)	5 (4)	134
		10	0	0	0	10(100)	0	10
		Total	323 (17)	279 (15)	538 (29)	520 (28)	198 (11)	1 857
	White Spruce	6	16 (20)	8 (10)	50 (64)	4 (5)	0	77
	Jack Pine	3	57 (31)	82 (46)	33 (19)	8 (4)	0	180
		4	0	0	26 (67)	13 (33)	0	40
		6	104 (58)	48 (27)	27 (15)	0	0	179
		7	157 (50)	128 (41)	17 (5)	11 (3)	0	313
		Total	317 (45)	258 (36)	104 (15)	32 (4)	0	712
Bare Root	Summary		668 (25)	545 (20)	703 (26)	556 (21)	199 (7)	2 670
PROVINCIAL SUMMARY			3 557 (39)	2 046 (23)	2 168 (24)	934 (10)	360 (4)	9 067

Table 3. Percent of the 1983 assessment plots in each planting density class by licensee.

Licensee	Density Classes (trees/ha) 0-1 650	1 650-2 000	2 000-3 000	greater than 3 000
Upsalquitch	16	6	37	41
Nepisiguit	15	20	63	2
Lower Miramichi	20	30	50	0
Upper Miramichi	11	30	59	0
Kent	17	13	70	0
Queens-Charlotte	28	26	45	1
Fundy	39	32	29	0
York	37	41	22	0
Carleton	17	31	52	0
Restigouche-Tobique	31	32	36	1
Provincial Summary	24	27	46	3

Table 4. Height at time of planting and after one year, by species and stock type for 1983 plantations.A

Licensee	Year	Black Spruce			White Spruce		Jack Pine				Red Pine	Larch	
		BR[1]	PP[2]	SB[3]	BR	PP	BR	PP	SB	SL[4]	PP	BR	PP
Upsalquitch	ORIG*	25	12	-	-	-	-	7	-	-	-	-	22
	1st Yr+	30	23	-	-	-	-	19	-	-	-	-	32
Nepisiguit	ORIG	-	13	-	-	14	-	7	-	-	-	-	30
	1st Yr	-	26	-	-	27	-	18	-	-	-	-	60
Lower	ORIG	23	9	-	-	-	17	6	-	-	-	-	-
Miramichi	1st Yr	30	21	-	-	-	35	15	-	-	-	-	-
Upper	ORIG	-	14	28	-	-	16	11	23	25	-	-	-
Miramichi	1st Yr	-	27	41	-	-	33	24	34	38	-	-	-
Kent	ORIG	8	-	-	-	-	-	12	-	-	-	-	-
	1st Yr	19	-	-	-	-	-	30	-	-	-	-	-
Queens-	ORIG	25	14	-	25	-	27	13	-	-	11	-	-
Charlotte	1st Yr	33	27	-	33	-	51	27	-	-	15	-	-
Fundy	ORIG	25	-	-	29	-	27	16	12	-	-	30	-
	1st Yr	30	-	-	32	-	42	30	28	-	-	52	-
York	ORIG	23	14	-	-	-	-	-	-	-	-	-	-
	1st Yr	27	29	-	-	-	-	-	-	-	-	-	-
Carleton	ORIG	22	12	-	-	-	-	7	-	-	-	-	-
	1st Yr	26	25	-	-	-	-	19	-	-	-	-	-
Restigouche-	ORIG	9	10	-	-	-	-	-	-	-	-	-	-
Tobique	1st Yr	20	21	-	-	-	-	-	-	-	-	-	-
Provincial	ORIG	24	12	28	25	14	24	10	15	25	11	30	23
Summary	1st Yr	30	24	41	33	27	43	22	30	38	15	52	35

1 Bare root stock type
2 Paper pot stock type
3 Styroblock and/or can-am 3 stock type
4 Spencer lemair
* Height in cm at time of planting measured after seedlings were planted
+ Height in cm one year after planting
A Browse damage was noted on a number of seedlings

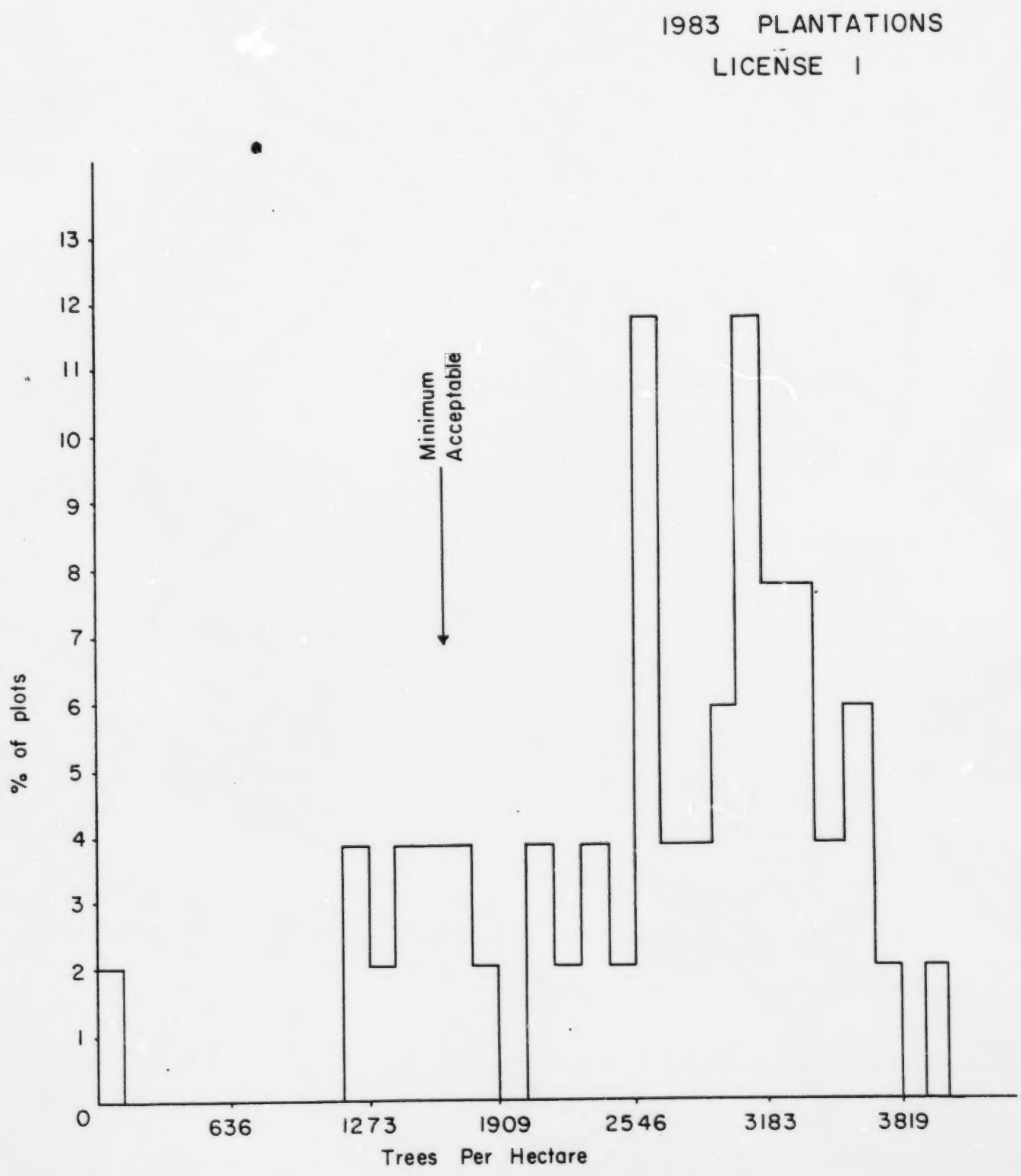


Figure 1 - Percent of plots versus number of planted trees per hectare at time of establishment - License 1

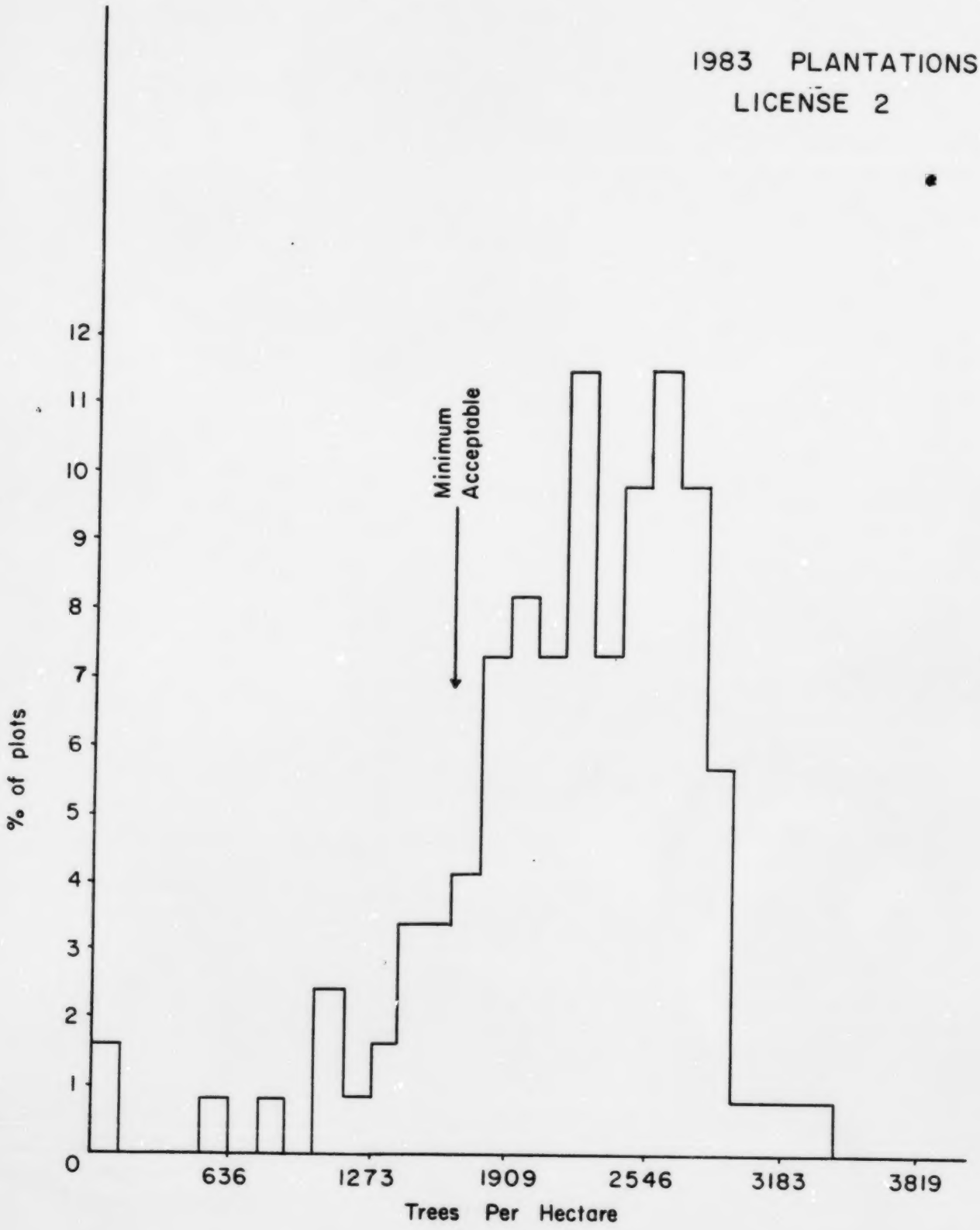


FIGURE 2.- Percent of plots versus number of planted trees per hectare at time of establishment- License 2

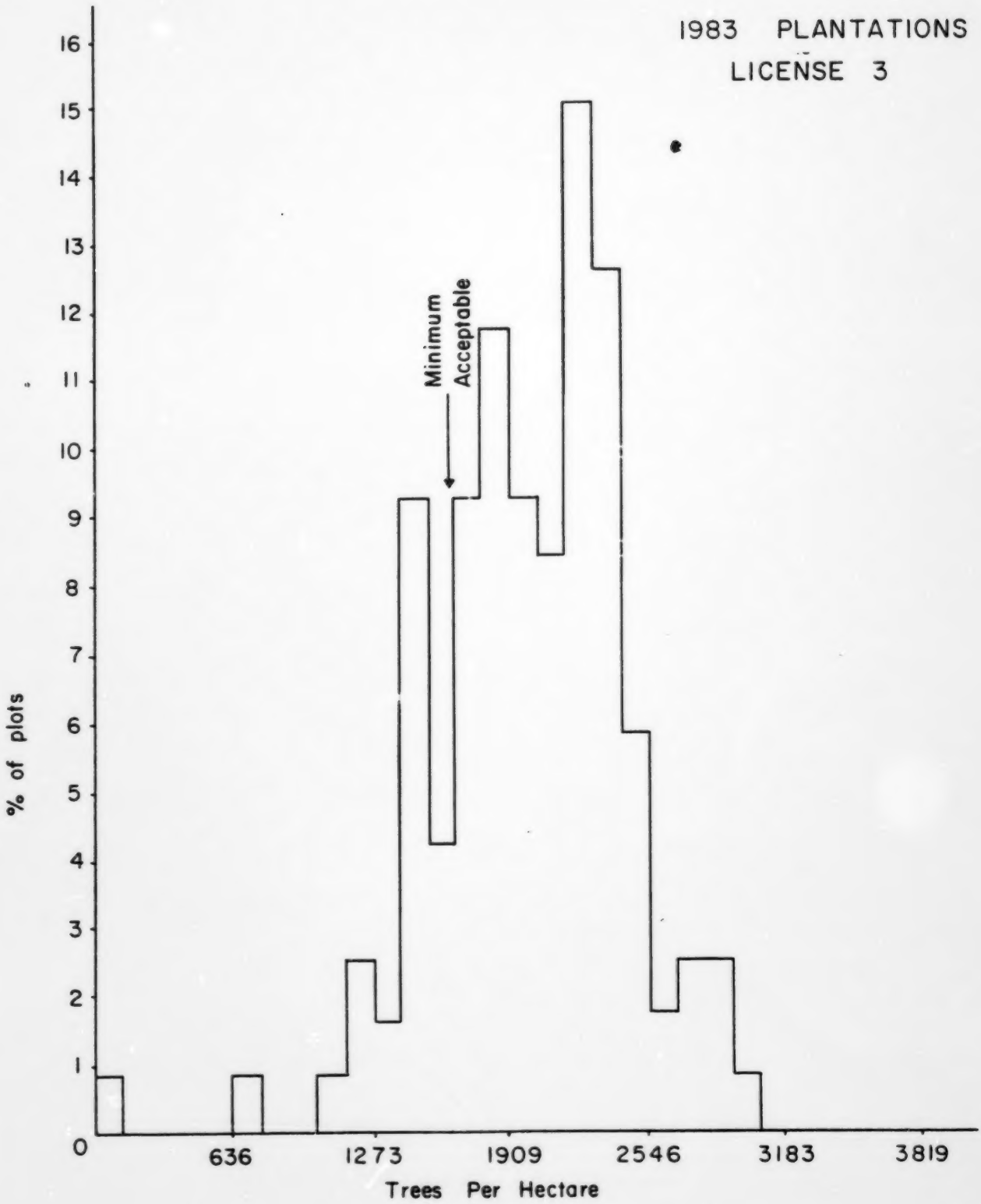


Figure 3 - Percent of plots versus number of planted trees per hectare at time of establishment - License 3

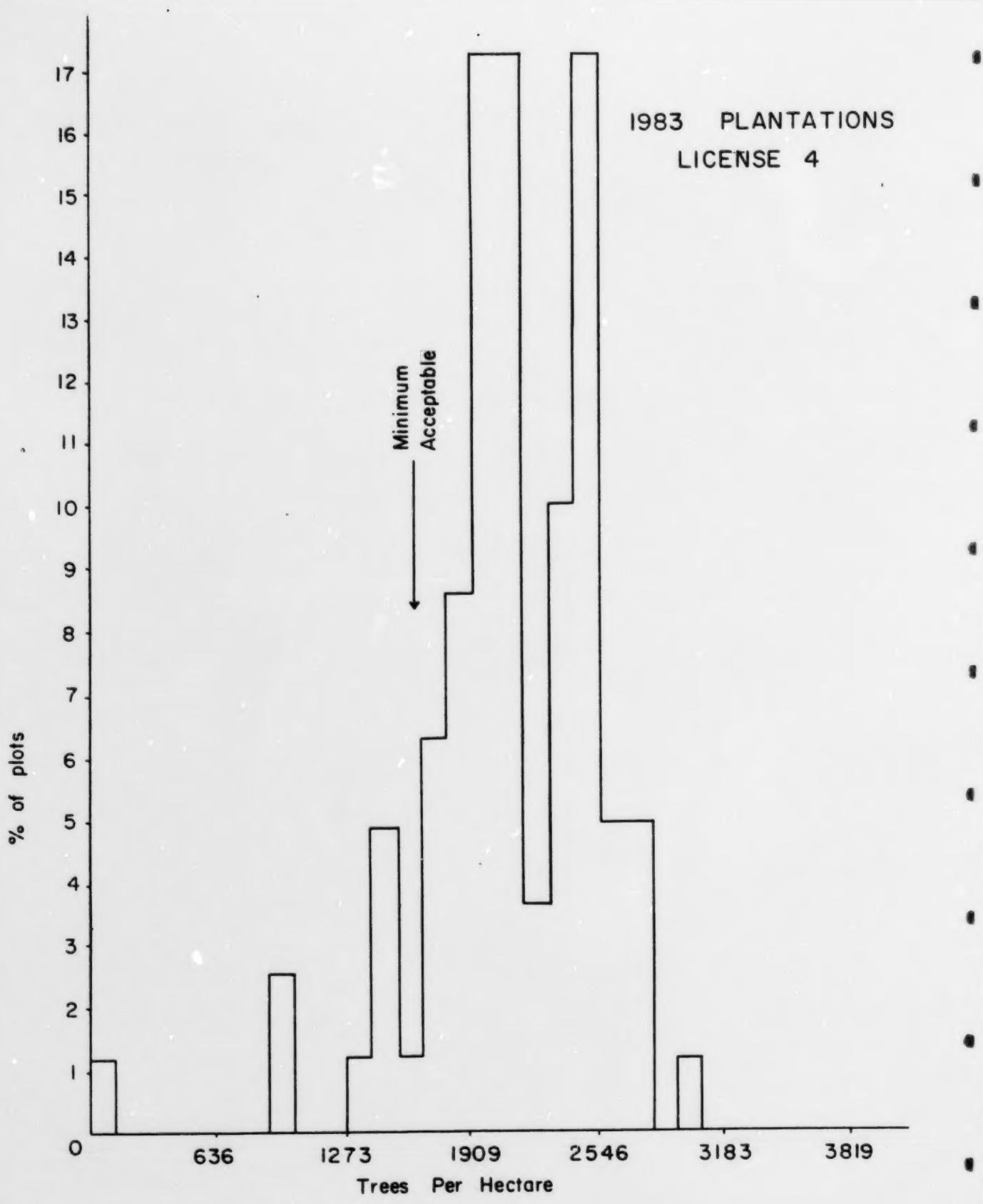


Figure 4 - Percent of plots versus number of planted trees per hectare at time of establishment - License 4

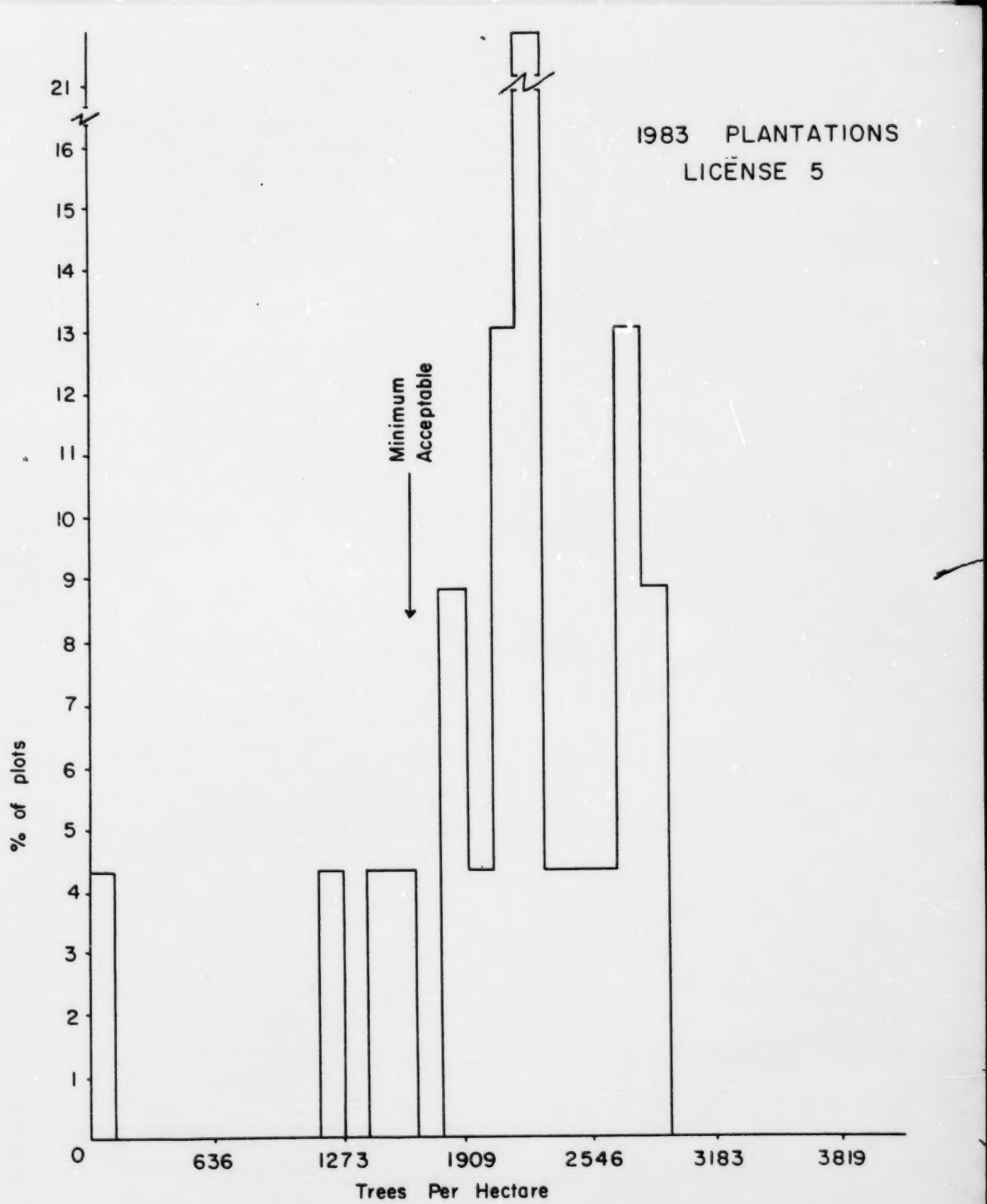


Figure 5 - Percent of plots versus number of planted trees per hectare at time of establishment - License 5

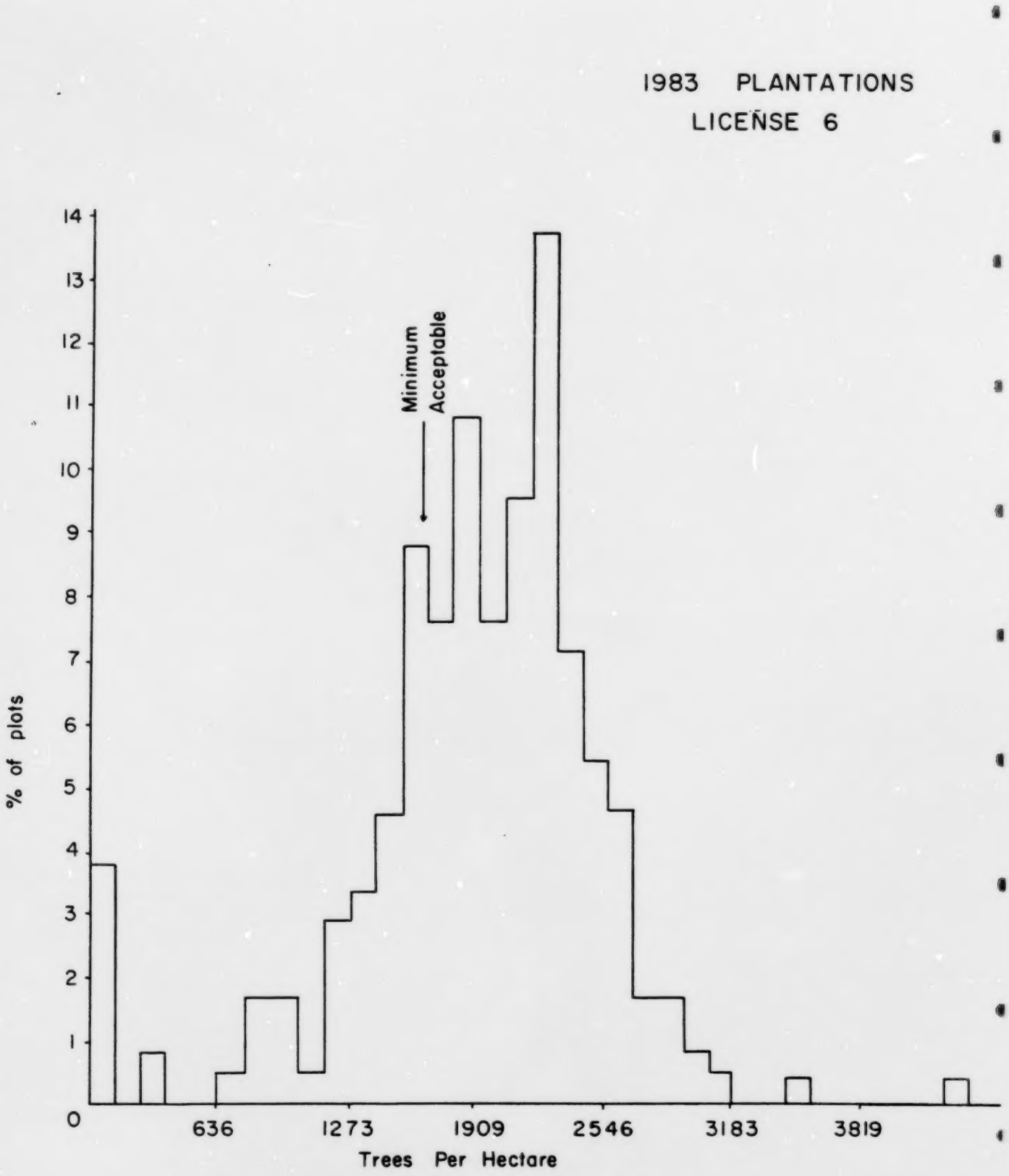


Figure 6 - Percent of plots versus number of planted trees per hectare at time of establishment - License 6

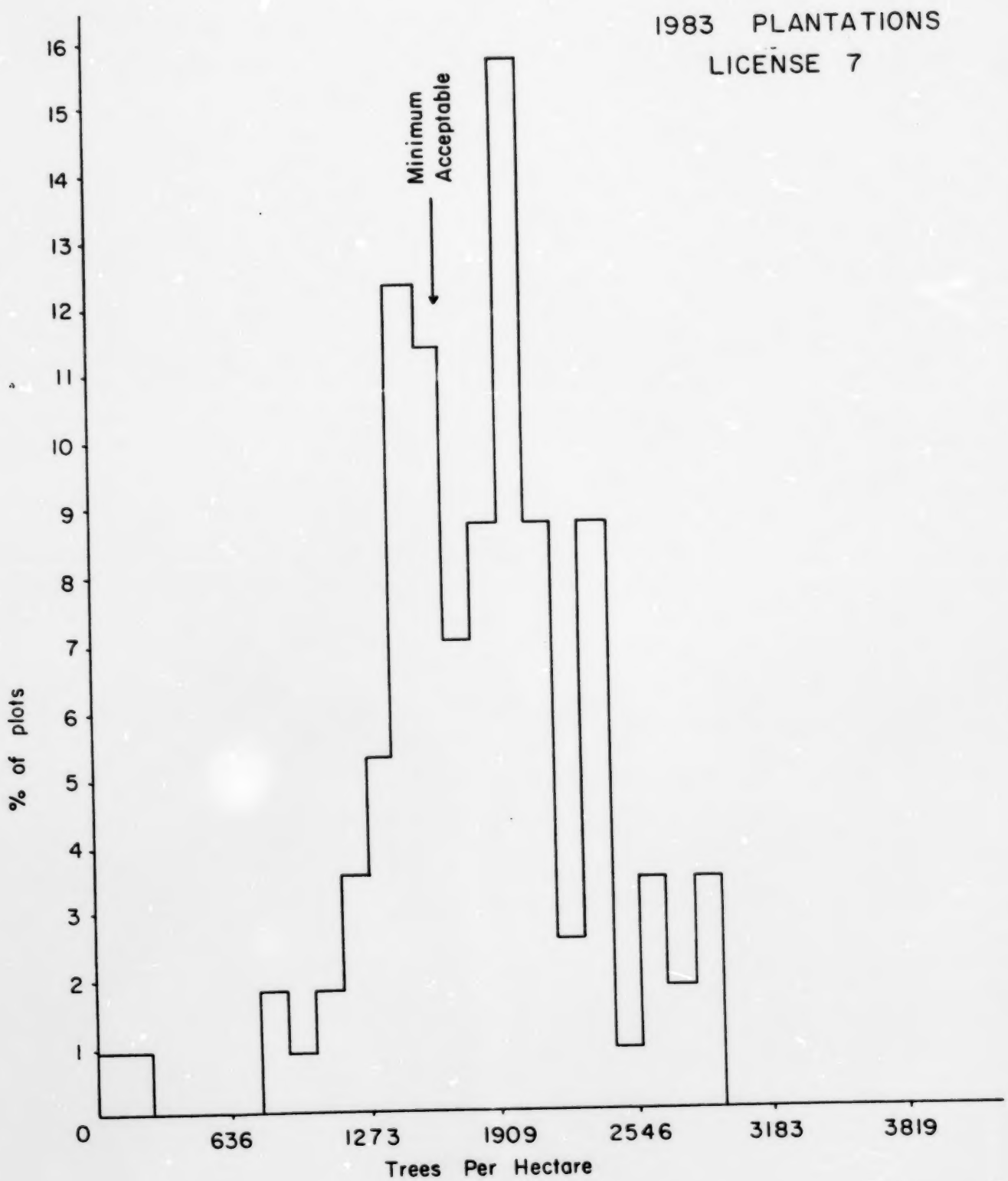


Figure 7 - Percent of plots versus number of planted trees per hectare at time of establishment - License 7

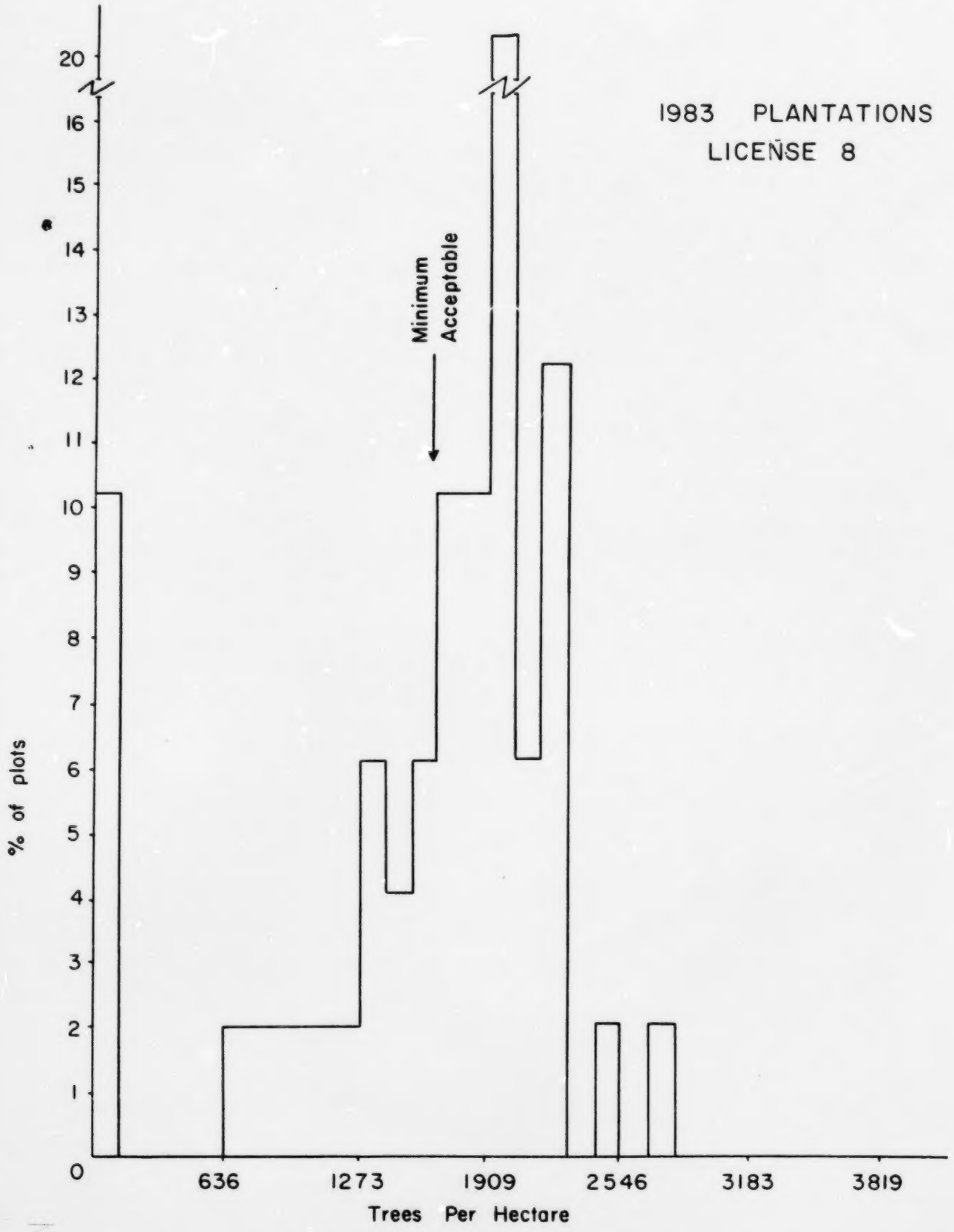


Figure 8 - Percent of plots versus number of planted trees per hectare at time of establishment - License 8

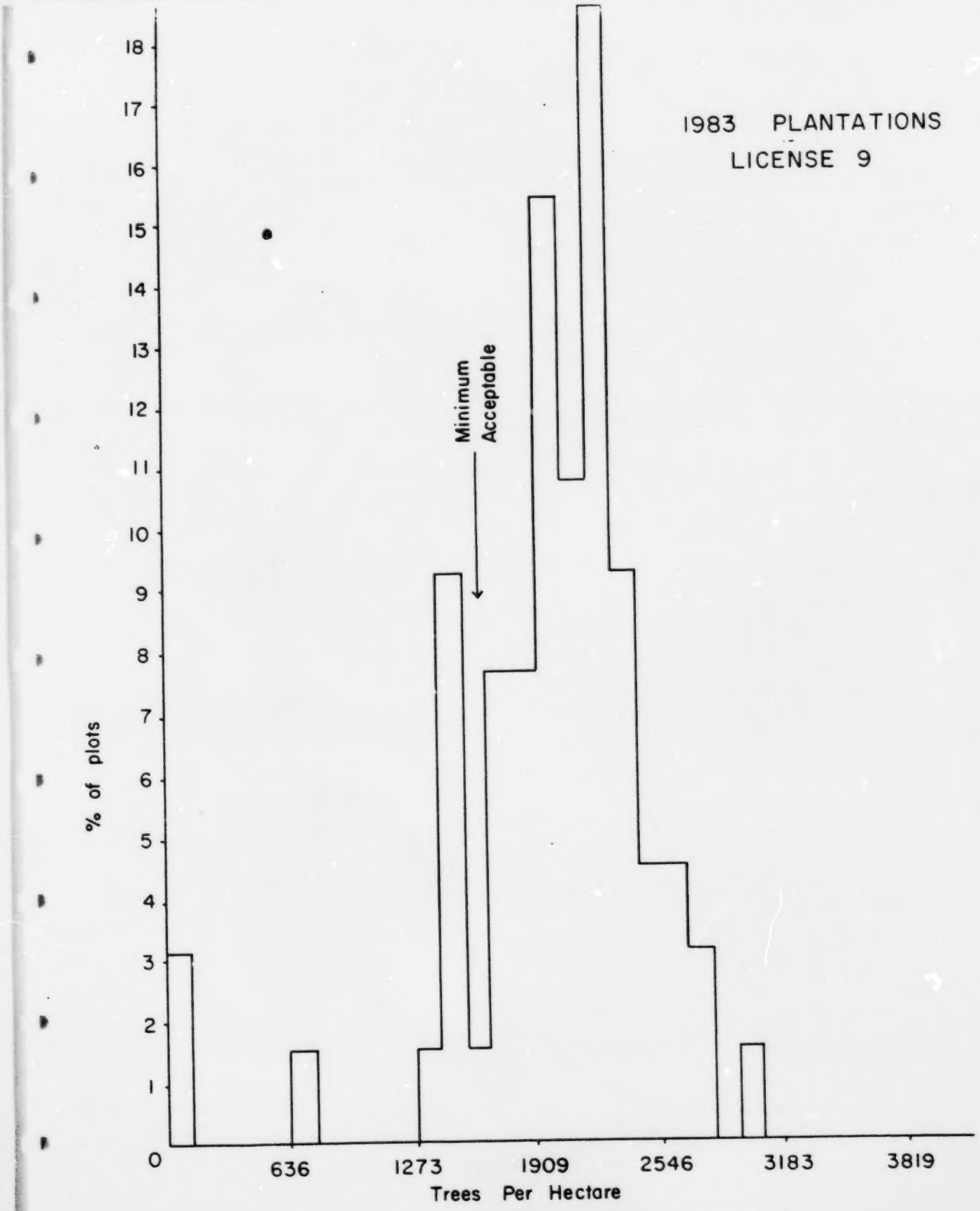


Figure 9 - Percent of plots versus number of planted trees per hectare at time of establishment - License 9

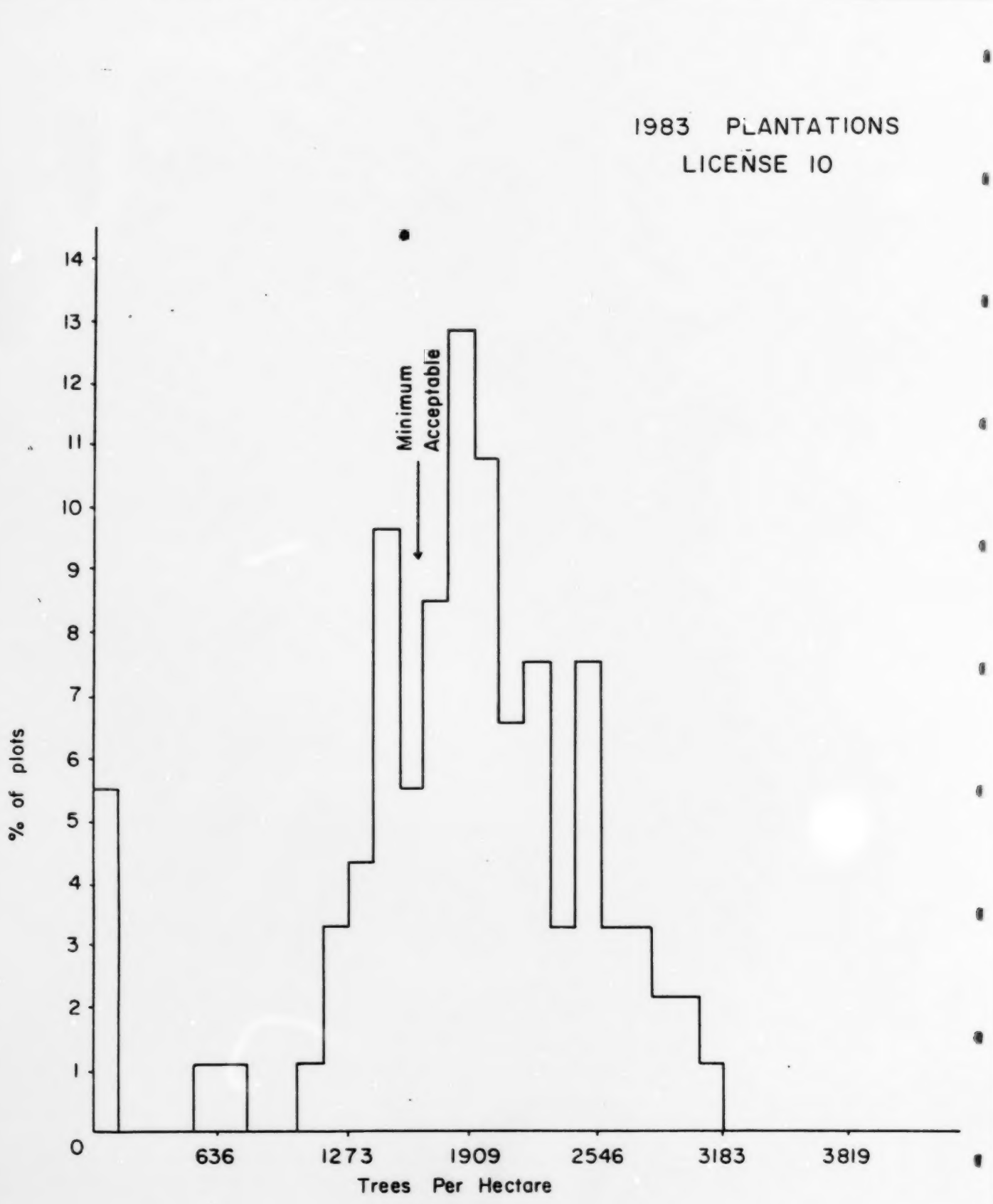


Figure 10 - Percent of plots versus number of planted trees per hectare at time of establishment - License 10

APPENDIX I

FIRST YEAR SURVIVAL, DENSITIES AND HEIGHTS OF 1983 PLANTATIONS

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
1	1010J1883BP	Barrels & Chains	85	bS	br	2 370	25	55	1 300	32
	1010J1983BP	Barrels & Chains	62	bS	br	2 670	24	54	1 440	29
				bS	pp	1 150	11	100	1 150	23
	1010J2083BP	Barrels & Chains	160	bS	pp	2 630	8	95	2 500	18
	1010K0683BP	Barrels & Chains	36	bS	pp	2 610	13	88	2 290	20
	1010K0783BP	Barrels & Chains	22	bS	pp	3 060	12	88	2 670	22
	1010K1183BP	Barrels & Chains	83	bS	pp	2 630	11	83	2 170	18
	1010L0883BP	Barrels & Chains	21	jP	pp	1 910	7	82	1 570	18
	101E0388 3BP	Barrels & Chains	45	bS	pp	2 660	12	86	2 270	28
	101E1268 3BP	Barrels & Chains	136	bS	pp	2 840	19	88	2 500	35
				jP	pp	3 220	7	91	2 930	19
	101F1038 3BP	Barrels & Chains	20	L	pp	1 820	22	74	1 360	32
2	102B0268 3BP	Plow	101	bS	pp	2 480	13	85	2 120	30
	102B0298 3BP	Plow	44	jP	pp	2 520	7	95	2 390	17
	102B0308 3BP	Plow	22	jP	pp	2 420	6	90	2 190	17
	102D0448 3BP	Plow	129	bS	pp	2 080	15	96	2 000	32
	102D0478 3BP	Disc Trencher	71	wS	pp	1 780	14	86	1 530	24
	102D0498 3BP	Disc Trencher	40	jP	pp	2 240	8	88	1 960	20
	102D0508 3BP	Disc Trencher	44	wS	pp	2 290	14	96	2 190	30
	102D0738 3BP	Disc Trencher	20	wS	pp	1 780	16	100	1 780	26
	102D0948 3BP	Plow	90	bS	pp	2 070	14	89	1 850	31
	102E0058 3BP	Disc Trencher	122	bS	pp	2 060	13	88	1 670	24

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
2	102E00783BP	Disc Trencher	108	bS	pp	2 220	11	90	2 000	20
	102E03883BP	Chains	25	bS	pp	2 830	11	87	2 450	29
	102E08183BP	Disc Trencher	42	bS	pp	2 470	13	74	1 830	21
	102E08283BP	Disc Trencher	51	bS	pp	2 080	13	70	1 460	20
	102E22383BP	Disc Trencher	31	bS	pp	1 380	11	82	1 130	23
	102E22583BP	Disc Trencher	12	bS	pp	1 700	10	85	1 440	17
	102H00683BP	Disc Trencher	90	jP	pp	1 700	5	94	1 590	17
3	203032983BP	C&H Plow	7	bS	br	1 780	18	93	1 660	27
	203033083BP	C&H Plow	102	bS	pp	1 670	7	87	1 450	18
	203033183BP	C&H Plow	38	bS	br	1 530	24	56	850	27
	203033283BP	C&H Plow	19	bS	br	2 250	22	60	1 360	29
	203033383BP	C&H Plow	47	bS	br	2 160	22	59	1 270	25
				bS	pp	1 660	11	92	1 530	13
	203033483BP	C&H Plow	20	bS	pp	1 660	9	92	1 530	20
	203033583BP	C&H Plow	33	bS	pp	2 100	8	76	1 590	18
	203033683BP	C&H Plow	76	bS	br	1 530	27	67	1 020	38
				jP	br	2 160	15	91	1 970	32
	203033783BP	C&H Plow	77	jP	br	2 080	17	84	1 740	39
	203033883BP	C&H Plow	78	jP	br	1 800	17	87	1 570	33
	203033983BP	C&H Plow	77	bS	pp	2 200	9	76	1 680	24
	203034083BP	C&H Plow	15	bS	pp	2 000	8	85	1 700	23
	203034183BP	C&H Plow	31	bS	pp	1 780	11	91	1 620	26

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
3	203034283BP	C&H Plow	27	jP	pp	2 500	7	76	1 910	17
	203034383BP	C&H Plow	44	jP	pp	1 950	7	89	1 740	14
	203034483BP	C&H Plow	23	jP	pp	1 910	9	100	1 910	20
	203034583BP	C&H Plow	47	jP	pp	2 210	6	88	1 950	17
	203034683BP	C&H Plow	28	jP	pp	2 230	5	93	2 070	14
	203034783BP	C&H Plow	41	jP	pp	1 710	7	95	1 620	14
	203034883BP	C&H Plow	45	jP	pp	1 680	5	77	1 300	15
	203034983BP	C&H Plow	81	jP	pp	1 710	4	69	1 180	11
	203035083BP	C&H Plow	9	jP	pp	1 590	5	64	1 020	11
	203035183BP	C&H Plow	19	jP	pp	1 846	7	76	1 400	13
	203035283BP	C&H Plow	11	jP	pp	1 910	7	80	1 530	14
	203035383BP	C&H Plow	21	jP	pp	2 100	6	88	1 850	14
	203035483BP	C&H Plow	7	jP	pp	2 360	6	86	2 040	13
	203035583BP	C&H Plow	13	jP	pp	2 100	5	76	1 590	15
	203035683BP	C&H Plow	25	jP	pp	2 250	6	64	1 440	14
	203036083BP	C&H Plow	49	jP	pp	2 200	6	87	1 910	14
	2030NRP83BP	C&H Plow	-	bS	pp	1 530	13	83	1 270	26
4	104051083BP	Disc Trencher	158	bS	pp	2 100	9	88	1 850	23
				jP	br	2 040	16	65	1 320	33
				jP	pp	2 420	9	82	1 970	20
				jP	sl	2 120	25	84	1 780	38
	204000583BP	C&H Plow	72	bS	pp	2 100	7	52	1 080	22
				jP	pp	1 910	8	67	1 270	22

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
4	204000883BP	C&H Plow	49	jP	pp	2 100	9	75	1 570	17
			28	jP	sb	1 550	23	94	1 460	33
	204050083BP	C&H Plow	180	bS	pp	1 910	9	100	1 910	23
				jP	pp	1 740	16	85	1 480	37
				jP	sb	2 160	23	94	2 040	39
				jP	pp	-	-	-	1 340	16
	204050183BP	C&H Plow	194	bS	pp	2 160	12	86	1 870	32
				bS	sb	1 910	28	93	1 780	41
				jP	pp	2 130	14	73	1 560	41
				jP	pp	1 860	8	68	1 270	19
	204050283BP	Burn&MardenRoller	40	jP	pp	2 380	9	88	2 080	20
	204050383BP	Burn&MardenRoller	64	jP	pp	2 250	15	92	2 060	28
				bS	pp	2 100	18	87	1 830	29
5	205020283BP	C&H Plow	11	bS	pp	2 420	7	89	2 160	18
				jP	pp	-	-	-	2 160	17
	205020383BP	C&H Plow	30	bS	pp	1 970	8	95	1 880	17
	205020483BP	C&H Plow	50	bS	pp	1 820	8	91	1 660	20
				jP	pp	1 780	12	93	1 660	26
	205020583BP	C&H Plow	7	bS	pp	2 480	9	82	2 040	23
	205020683BP	C&H Plow	39	jP	pp	2 150	13	83	1 780	35
6	206997283BP	Crusher	11	jP	pp	1 740	5	90	1 570	17
	206998983BP	Marden Rollers	83	jP	pp	2 180	11	85	1 850	15
	206999283BP	Crusher	56	bS	br	1 880	25	74	1 400	31

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
6	2069993838P	Crusher	80	bS	pp	1 780	20	88	1 570	26
				jP	pp	1 730	6	92	1 580	14
	2069994838P	Crusher	23	bS	pp	1 880	11	84	1 580	18
	2069998838P	Crusher	176	bS	br	1 690	25	60	990	34
				bS	pp	1 590	11	88	1 400	23
				jP	pp	2 230	18	88	1 950	38
	3069986838P	Marden Rollers	58	bS	br	2 130	26	57	1 210	38
	3069987838P	Marden Rollers	196	bS	br	1 670	28	84	1 400	36
	3069988838P	Marden Rollers	566	jP	pp	1 950	13	89	1 740	26
				bS	br	1 340	25	64	860	31
				bS	pp	1 950	15	94	1 830	27
				jP	br	2 290	28	85	1 950	51
	4060009838P	Chains	88	bS	br	1 850	22	65	1 200	29
	4060025838P	Barrels & Chains	34	bS	br	1 970	27	84	1 660	32
				wS	br	720	25	94	680	34
	4060028838P	No Site Prep.	32	bS	br	1 270	22	57	720	27
				bS	pp	1 530	10	97	1 480	19
	4060029838P	Chains	11	bS	br	1 850	21	84	1 560	28
	4069938838P	Bracke	137	bS	br	1 530	25	50	760	36
				bS	pp	1 460	12	86	1 270	30
	4069940838P	Bracke	106	bS	pp	2 070	17	92	1 910	29
	4069941838P	Barrels & Chains	96	bS	br	1 490	30	84	1 260	41
				jP	pp	1 210	16	70	850	29
	4069945838P	Barrels & Chains	64	bS	br	1 910	20	55	1 050	30
				jP	br	2 470	26	88	2 160	46

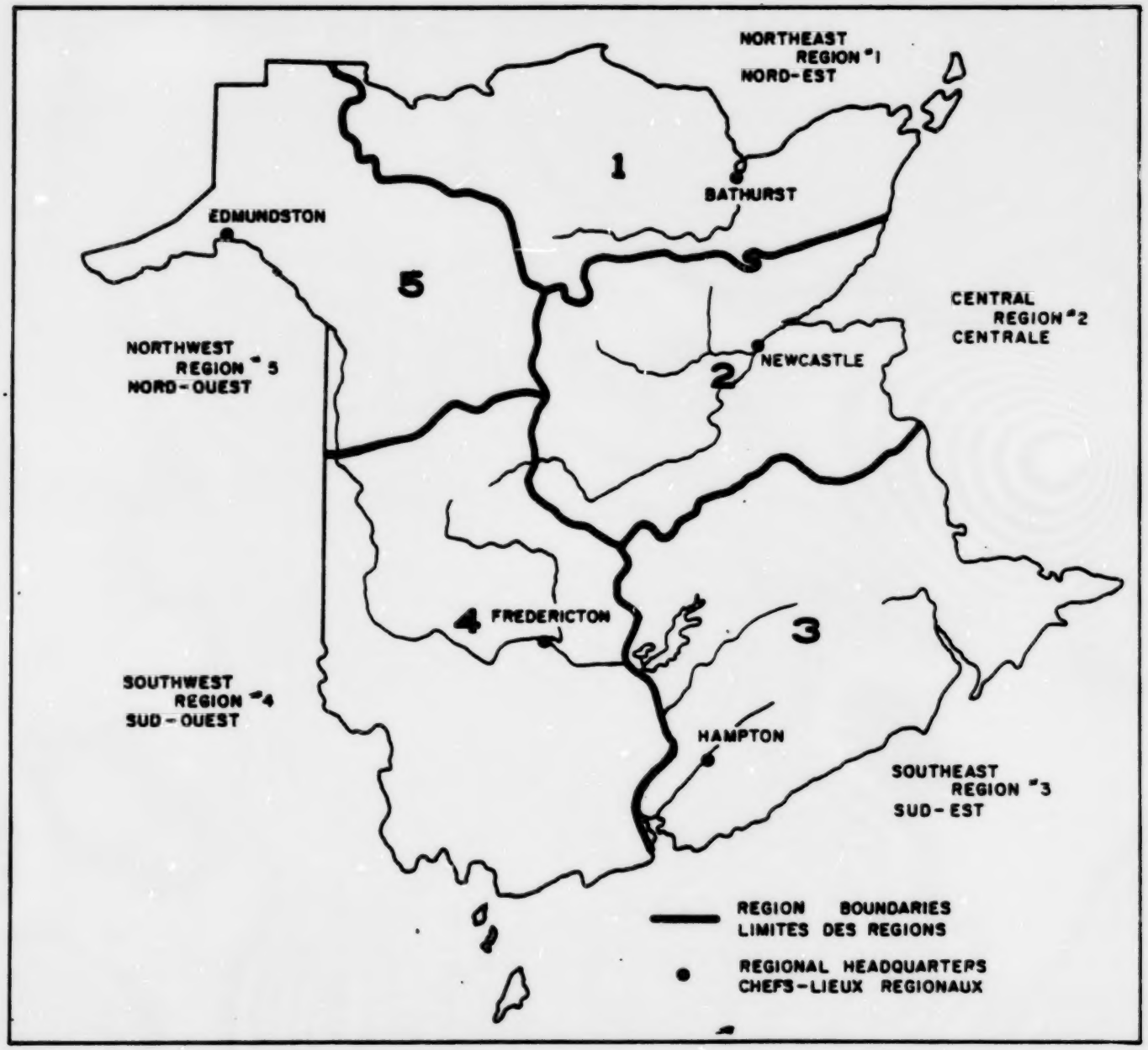
License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
6	4069946838P	Barrels & Chains	27	wS	br	1 590	20	81	1 290	31
				bS	br	2 260	22	56	1 270	34
	4069947838P	Barrels & Chains	200	wS	br	2 360	27	70	1 660	36
				jP	br	1 910	27	97	1 860	58
				jP	pp	1 530	14	100	1 530	45
				bS	br	2 120	21	60	1 270	26
	4069948838P	Bracke	18	wS	br	2 480	31	69	1 720	33
	4069949838P	Barrels & Chains	57	jP	pp	1 710	18	92	1 570	37
				bS	br	2 390	27	91	2 160	33
	4069950838P	Barrels & Chains	44	bS	pp	1 720	13	83	1 430	29
7	3070007838P	Crusher	129	jP	br	1 890	29	94	1 770	42
				bS	br	1 800	26	84	1 510	29
	3070062838P	Crusher	108	bS Orig	br	2 150	27	88	1 880	30
	3070066838P	Crusher	147	bS	br	1 730	25	83	1 290	28
				bS	br	1 660	25	62	1 020	32
	3070067838P	Crusher & Barrels	72	jP	sb	1 400	15	91	1 270	30
	3070068838P	Crusher	40	jP	br	1 910	27	83	1 580	42
	3079988838P	Bracke	69	jP	pp	2 450	16	95	2 340	31
	3079989838P	Barrels	88	jP	sb	1 590	10	90	1 440	27
	3079990838P	Barrels	36	jP	sb	1 380	15	87	1 200	28
				bS	br	1 950	24	50	976	29
	3079991838P	Marden Rollers & Barrels	196	jP	pp	1 910	16	90	1 720	30
				jP	br	1 940	26	86	1 680	43
	3079992838P	C&H Plow	152	L	br	1 210	30	84	1 020	52
				bS	br	1 780	23	69	1 230	32
	3079993838P	Crusher & Barrels	33	jP	sb	1 220	12	93	1 130	27

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
7	307999683BP	Chains	27	bS	br	1 120	31	49	550	37
	3073NRP83BP	Bracke	-	wS	br	1 400	29	91	1 270	32
		Crusher	-	jP	br	2 290	23	89	2 040	41
8	4081005833BP	Barrels & Chains	140	bS	br	1 730	24	68	1 180	25
	4081006833BP	Barrels & Chains	275	bS	br	1 940	20	66	1 270	32
				bS	pp	1 620	13	88	1 420	31
	4081007833BP	Barrels & Chains	88	bS	pp	1 270	15	89	1 130	30
	4081008833BP	Barrels & Chains	64	bS	pp	1 690	16	89	1 500	28
	4081009833BP	Barrels & Chains	57	bS	pp	860	11	93	800	25
9	4099001833BP	Barrels & Chains	79	bS	pp	1 910	11	79	1 500	26
	4099003833BP	Barrels & Chains	36	jP	pp	1 890	9	77	1 460	19
	4099004833BP	Barrels & Chains	47	bS	br	2 040	24	59	1 200	28
			18	bS	pp	2 160	14	94	2 040	21
			48	jP	pp	1 970	6	94	1 850	19
	4099005833BP	Barrels & Chains	169	jP	pp	1 630	7	70	1 150	19
	4099006833BP	Barrels & Chains	23	bS	pp	1 530	12	79	1 210	23
	4099007833BP	Barrels & Chains	55	bS	br	1 980	22	69	1 360	29
	4099008833BP	Barrels & Chains	52	bS	br	2 460	21	71	1 740	23
10	5100054833BP	C&H Plow	12	bS	pp	2 420	14	68	1 660	20
	5100055833BP	C&H Plow	7	bS	pp	2 040	8	94	1 910	20
	5100056833BP	C&H Plow	38	bS	pp	1 660	13	55	1 020	24

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Original Year Density (trees/ha)	Original Year Height (cm)	First Year Survival (%)	First Year Density (trees/ha)	First Year Height (cm)
10	510005883BP	C&H Plow	185	bS	pp	1 630	10	86	1 400	20
	510006283BP	C&H Plow	98	bS	pp	1 760	9	60	1 050	16
	510006483BP	C&H Plow	94	bS	pp	1 670	9	63	1 040	16
	510006583BP	C&H Plow	22	bS	pp	1 530	10	71	1 080	21
	510006683BP	C&H Plow	3	bS	pp	2 160	9	82	1 780	19
	5100067833BP	C&H Plow	116	bS	br	1 530	9	58	890	20
				bS	pp	1 740	11	74	1 300	24
	510007383BP	Disc Trencher	19	bS	pp	1 970	8	74	1 460	17
	510007483BP	Disc Trencher	10	bS	pp	3 060	14	96	2 930	30
	510007583BP	Disc Trencher	16	bS	pp	1 400	10	73	1 020	33
	510007683BP	Disc Trencher	25	bS	pp	2 420	12	82	2 000	30
	510007783BP	Disc Trencher	51	bS	pp	1 820	12	63	1 150	23
	510007883BP	Disc Trencher	34	bS	pp	2 260	14	80	1 814	25
	510007983BP	Disc Trencher	28	bS	pp	1 400	11	82	1 150	21
	510008083BP	Disc Trencher	5	bS	pp	1 780	11	79	1 400	24
	510008183BP	Disc Trencher	76	bS	pp	1 460	7	70	1 020	13
	510008483BP	Bracke	38	bS	pp	2 120	10	76	1 610	24
	510008583BP	Bracke	10	bS	pp	1 400	10	91	1 270	16
	510008683BP	Bracke	8	bS	pp	2 550	12	95	2 420	23
	510500283BP	C&H Plow	48	bS	pp	1 760	8	62	1 090	20
	510500383BP	C&H Plow	4	bS	pp	1 910	8	87	1 660	22

APPENDIX II

REGION BOUNDARIES
DEPARTMENT OF NATURAL RESOURCES



LIMITES DES REGIONS
MINISTERE DES RESSOURCES NATURELLES